

Abstract

Sound Absorbers

The present invention relates to a sound absorber consisting of two interconnected non-woven fabrics (1,2) bonded through thermoplastic and/or thermoset materials, wherein the non-woven fabric (1) facing towards the sound-emitting source has a layer thickness within a range of from 2 to 15 mm, a density within a range of from 50 to 500 kg/m³, a weight per surface area within a range of from 0.1 to 5 kg/m², and a flow resistance within a range of from 50 to 1000 kNs/m⁴, and the non-woven fabric (2) facing away from the sound-emitting source has a layer thickness within a range of from 10 to 100 mm, a density within a range of from 20 to 100 kg/m³, a weight per surface area within a range of from 0.5 to 1 kg/m², and a flow resistance within a range of from 10 to 40 kNs/m⁴, with a total thickness of the sound absorber within a range of from 12 to 30 mm and a total weight per surface area of the sound absorber within a range of from 0.5 to 3 kg/m².